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SINCE FILE	TOTAL
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FULL ESTIMATED COST

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DICTIONARY FILE UPDATES: 21 AUG 2008 HIGHEST RN 1042670-14-3

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=> S 576-19-2/RN

L1 1 576-19-2/RN

=> S 9025-15-4/RN

L2 1 9025-15-4/RN

=> sel L1 chem

E1 THROUGH E6 ASSIGNED

=> sel L2 chem

E7 THROUGH E10 ASSIGNED

=> b bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
1.64	1.85

FULL ESTIMATED COST

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  11 FILES SEARCHED...
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  28 FILES SEARCHED...
  40 FILES SEARCHED...
  45 FILES SEARCHED...
  60 FILES SEARCHED...
L3      417 (E-N-BIOTINYL-L-LYSINE/BI OR "(+)-BIOCYTIN"/BI OR BIOCYT
        IN/BI OR D-BIOCYTIN/BI OR 26434-61-7/BI OR 576-19-2/BI) AND (BIO
        CYTINASE/BI OR BIOTINIDASE/BI OR "E.C. 3.5.1.12"/BI OR 9025-15-4
        /BI)

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  12 FILES SEARCHED...
  28 FILES SEARCHED...
  45 FILES SEARCHED...
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L4      325 (E-N-BIOTINYL-L-LYSINE/BI OR "(+)-BIOCYTIN"/BI OR BIOCYT
        IN/BI OR D-BIOCYTIN/BI OR 26434-61-7/BI OR 576-19-2/BI) (S) (BIO
        CYTINASE/BI OR BIOTINIDASE/BI OR "E.C. 3.5.1.12"/BI OR 9025-15-4
        /BI)

=> s L4 and (metaboli### or disorder or deficien###)
  28 FILES SEARCHED...
  54 FILES SEARCHED...
L5      260 L4 AND (METABOLI### OR DISORDER OR DEFICIEN###)

=> s L5 and (mass (2a) spectro?)
  22 FILES SEARCHED...
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L6      7 L5 AND (MASS (2A) SPECTRO?)

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  41 FILES SEARCHED...
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=> d rank  
NO F-NUMBERS CURRENTLY EXIST

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L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2006:1204208 CAPLUS <<LOGINID::20080822>>  
DOCUMENT NUMBER: 145:501382  
TITLE: Simultaneous mass spectrometric  
detection of metabolic enzyme activity and  
metabolite levels for diagnosis of a  
metabolic disorder  
INVENTOR(S): Cerda, Blas  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 20pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060257963	A1	20061116	US 2006-539180	20060320
WO 2006025863	A2	20060309	WO 2005-US6371	20050228
WO 2006025863	A3	20071122		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			

PRIORITY APPLN. INFO.: WO 2005-US6371 W 20050228  
WO 2004-US28238 A 20040830

AB Provided are methods for detecting a metabolic disorder in an individual using mass spectrometry. One method involves: (a) contacting a sample containing (i) metabolically indicative enzymes and (ii) metabolic analytes, with substrates for the enzymes to produce a reaction admixt., under conditions wherein at least one of the enzymes is capable of acting on a corresponding substrate to generate at least one product, and wherein protease inhibitors are present; (b) contacting the reaction admixt. with a reagent that inhibits the ability of the enzymes to act on a corresponding substrate, wherein the metabolic analytes and at least one product are soluble in the reagent; to produce a test sample; and (c) determining the presence or amount

of the metabolic analytes and at least one product contained in the test sample using mass spectrometry, wherein a determined presence or amount of the metabolic analytes and the product correlates with presence or absence of the metabolic disorder. Exemplary simultaneous determination of biotinidase and the  $\alpha$ -amino acid and acylcarnitine analytes in dried blood sample for diagnosis of biotinidase deficiency in newborn is described.

L6 ANSWER 2 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2007:190631 USPATFULL <<LOGINID::20080822>>  
TITLE: METHODS AND COMPOSITIONS FOR DETECTING ENZYMATIC

ACTIVITY

INVENTOR(S): Bobrow, Mark N., 11 Battle Green Road, Lexington, MA,  
UNITED STATES 02421  
Adler, Karl Edwin JR., 2 Shandel Drive, Newburyport,  
MA, UNITED STATES 01950  
Schermer, Mack J., 284 Lake Street, Belmont, MA, UNITED  
STATES 02478  
PATENT ASSIGNEE(S): PERKINELMER LAS, INC., Boston, MA, UNITED STATES, 02118  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070166810	A1	20070719
APPLICATION INFO.:	US 2006-615733	A1	20061222 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-753492P	20051223 (60)
	US 2005-753583P	20051223 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & RICHARDSON PC, P.O. BOX 1022, MINNEAPOLIS, MN, 55440-1022, US	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	1285	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	This invention relates to methods and compositions useful in detecting enzymatic activity. Also featured are methods for diagnosing enzyme deficiencies such as metabolic disorders.	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:333999 USPATFULL <<LOGINID::20080822>>  
TITLE: Antibodies against biotinylated histones and related

proteins and assays related thereto

INVENTOR(S): Zempleni, Janos, Lincoln, NE, UNITED STATES  
Sarath, Gautam, Lincoln, NE, UNITED STATES  
PATENT ASSIGNEE(S): Board of Regents of University of Nebraska, Lincoln,  
NE, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060286611	A1	20061221
APPLICATION INFO.:	US 2005-173982	A1	20050630 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-674221P	20050422 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SHERIDAN ROSS PC, 1560 BROADWAY, SUITE 1200, DENVER, CO, 80202, US	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	15 Drawing Page(s)	

LINE COUNT: 4346

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Described are specific biotinylation sites in histones, polypeptide fragments of histones comprising such biotinylation sites, and antibodies that selectively bind to such biotinylated sites. Also described are methods to detect biotinylation in a sample, to detect biotinyl transferase activity in a sample, to identify regulators of biotinylation, and to detect activities associated with histone biotinylation. Also described is an assay to detect or measure histone debiotinylation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:310744 USPATFULL <<LOGINID::20080822>>

TITLE: Water soluble multi-biotin-containing compounds

INVENTOR(S): Wilbur, D. Scott, Edmonds, WA, UNITED STATES  
Fathare, Pradip M., Seattle, WA, UNITED STATES  
Hamlin, Donald K., Payuallup, WA, UNITED STATES  
Wan, Feng, Seattle, WA, UNITED STATES

PATENT ASSIGNEE(S): University of Washington, Seattle, WA, UNITED STATES  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 7141676	B1	20061128
APPLICATION INFO.:	US 2002-261040		20020930 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-324267, filed on 2 Jun 1999, ABANDONED Continuation-in-part of Ser. No. US 1997-798413, filed on 7 Feb 1997, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-11321P	19960208 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Jones, Dameron L.	
LEGAL REPRESENTATIVE:	Mueller and Smith, LPA	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	2084	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Water-soluble discrete multi-biotin-containing compounds with at least three (3) biotin moieties are disclosed. The water-soluble biotin-containing compounds may additionally comprise one or more moieties that confer resistance to cleavage by biotinidase or that is cleavable in vitro or in vivo. The discrete multi-biotin-containing compounds may include a reactive moiety that provides a site for reaction with yet another moiety, such as a targeting, diagnostic or therapeutic functional moiety. Biotinylation reagents comprising water-soluble linker moieties are also disclosed and may additionally comprise a biotinidase protective group. Methods for amplifying the number of sites for binding biotin-binding proteins at a selected target using multi-biotin compounds also are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:301605 USPATFULL <<LOGINID::20080822>>

TITLE: Simultaneous detection of metabolic enzyme



activity and metabolite levels  
INVENTOR(S): Cerda, Blas, Milford, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060257963	A1	20061116
APPLICATION INFO.:	US 2005-539180	A1	20050228 (10)
	WO 2005-US6371		20050228
			20060320 PCT 371 date

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: GIFFORD, KRASS, GROH, SPRINKLE, ANDERSON, & CITKOWSKI,  
P.C., P.O. BOX 7021, TROY, MI, 48007-7021, US  
NUMBER OF CLAIMS: 39  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 1 Drawing Page(s)  
LINE COUNT: 1754  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided are methods for detecting a metabolic disorder in an individual using mass spectrometry. One method involves (a) contacting a sample containing (i) one or more metabolically indicative enzymes and (ii) one or more metabolic analytes, with one or more substrates for said one or more enzymes to produce a reaction admixture, under conditions wherein at least one of said enzymes is capable of acting on a corresponding substrate to generate at least one product, and wherein one or more protease inhibitors are present; (b) contacting said reaction admixture with a reagent that inhibits the ability of said one or more enzymes to act on a corresponding substrate, wherein said one or more metabolic analytes and said at least one product are soluble in said reagent; to produce a test sample and (c) determining the presence or amount of said one or more metabolic analytes and said at least one product contained in said test sample using mass spectrometry, wherein a determined presence or amount of said one or more metabolic analytes and said at least one product correlates with presence or absence of said metabolic disorder. product correlates with presence or absence of said metabolic disorder.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 7 USPATFULL on STN  
ACCESSION NUMBER: 2006:274530 USPATFULL <<LOGINID::20080822>>  
TITLE: Mass spectrometry methods for  
simultaneous detection of metabolic enzyme  
activity and metabolite levels  
INVENTOR(S): Cerda, Blas, Milford, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060234326	A1	20061019
APPLICATION INFO.:	US 2004-539273	A1	20040830 (10)
	WO 2004-US28238		20040830
			20060419 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-10652732	20030829
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	GIFFORD, KRASS, GROH, SPRINKLE, ANDERSON, & CITKOWSKI,	

P.C., P.O. BOX 7021, TROY, MI, 48007-7021, US  
NUMBER OF CLAIMS: 57  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 1 Drawing Page(s)  
LINE COUNT: 1595  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a method for detecting a metabolic disorder in an individual. The method involves (a) contacting a sample containing (i) one or more metabolically indicative enzymes and (ii) one or more metabolic analytes, with one or more substrates for said one or more enzymes to produce a reaction admixture, under conditions in which at least one of said enzymes is capable of acting on a corresponding substrate to generate at least one product; (b) contacting said reaction admixture with a reagent that inhibits the ability of said one or more enzymes to act on a corresponding substrate, wherein said one or more metabolic analytes and said at least one product are soluble in said reagent; to produce a test sample and (c) determining the presence or amount of said one or more metabolic analytes and said at least one product contained in said test sample using mass spectrometry, wherein a determined presence or amount of said one or more metabolic analytes and said at least one product correlates with presence or absence of said metabolic disorder.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:267644 USPATFULL <<LOGINID::20080822>>  
TITLE: Water soluble multi-biotin-containing compounds  
INVENTOR(S): Wilbur, D. Scott, Edmonds, WA, UNITED STATES  
Fathare, Pradip M., Florence, SC, UNITED STATES  
Hamlin, Donald K., Payuallup, WA, UNITED STATES  
Wan, Feng, Seattle, WA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060228325	A1	20061012
APPLICATION INFO.:	US 2006-435963	A1	20060517 (11)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-261040, filed on 30 Sep 2002, PENDING Continuation-in-part of Ser. No. US 1999-324267, filed on 2 Jun 1999, ABANDONED Continuation-in-part of Ser. No. US 1997-798413, filed on 7 Feb 1997, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-11321P	19960208 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Jerry K. Mueller, Jr., Mueller and Smith, LPA, 7700 Rivers Edge Drive, Columbus, OH, 43235, US	
NUMBER OF CLAIMS:	32	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	2186	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Water-soluble discrete multi-biotin-containing compounds with at least three (3) biotin moieties are disclosed. The water-soluble biotin-containing compounds may additionally comprise one or more moieties that confer resistance to cleavage by biotinidase or that is

cleavable in vitro or in vivo. The discrete multi-biotin-containing compounds may include a reactive moiety that provides a site for reaction with yet another moiety, such as a targeting, diagnostic or therapeutic functional moiety. Biotinylation reagents comprising water-soluble linker moieties are also disclosed and may additionally comprise a biotinidase protective group. Methods for amplifying the number of sites for binding biotin-binding proteins at a selected target using multi-biotin compounds also are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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